

*In the Claims*

The status of claims in the case is as follows:

1       1. [Currently amended] A collaboration space created as a  
2       web site by a user at a browser including a plurality of  
3       rooms in a hierarchical structure with access control list  
4       control on rooms and access control list control on forward  
5       pointers to child rooms, comprising:

6       said web site including a place comprising a plurality  
7       of subrooms, each subroom being an independent entity  
8       belonging to said place,

9               said place having a first data note including a  
10              directory of members of said place and

11             each subroom within said place having a data note  
12             associated therewith containing an access control  
13             list of members selected exclusively from said  
14             directory of members by a member of said place  
15             having manager ~~or~~ author authority with respect to  
16             said subroom for specifying users of said place  
17             authorized to access said subroom;

18 forward and reverse pointers for linking said subrooms,  
19 each said forward pointer to a child room including  
20 indicia identifying said child room, indicia specifying  
21 the address location of the entity forming said child  
22 room, and a readers field for providing access control  
23 list control on said forward pointer;

24 said readers field being a members object for  
25 identifying those members of said subset of members of  
26 said place authorized to access a parent subroom that  
27 are also authorized to access a child subroom and for  
28 each member of said subset of members a level of  
29 authorization;

30 a document readers field for a document containing data  
31 in said subroom being a members object for identifying  
32 a subset of members of said place authorized to access  
33 a subroom who are also authorized to access said  
34 document; and

35 said collaboration space comprising a hierarchy of  
36 rooms, each room being a place in collaboration space  
37 including said directory of members; said directory of  
38 members, said access control list of members, and said

39           readers field selectively providing increased,  
40           decreased, and maintained access to a child place in  
41           collaboration space, with access at any level of  
42           authority to a child place enabled only for those  
43           authorized to access a corresponding parent place, and  
44           whether a link to a child place will be enabled for a  
45           specific user in its corresponding parent place.

1       2. [Original] The collaboration space of claim 1, said  
2       levels of authorization including manager, author, and  
3       reader.

1       3. [Currently amended] A collaboration space created as a  
2       web site by a user at a browser, comprising:

3           a place comprising a plurality of rooms in a  
4           hierarchical structure linked by forward and backward  
5           pointers;

6           a member directory for said place identifying users  
7           authorized to enter said place;

8           each said room comprising one or more pages, and for

9           each said room a members object for identifying a  
10           subset of members of said place authorized to access  
11           said room and for each member a level of authorization,  
12           each member of said subset of members being a user  
13           authorized in said member directory to enter said  
14           place;

15           said rooms including a parent room and a child room,  
16           and said pointers comprising forward and backward  
17           pointers for enabling the security of each said room to  
18           be independently managed, said forward pointers  
19           including indicia identifying said child room, indicia  
20           specifying the address location of the database forming  
21           said child room, and a readers field for providing  
22           access control list control on said forward pointer,  
23           said readers field for identifying those members of  
24           said subset of members of said place authorized to  
25           access a parent room that are also authorized to access  
26           a child room; and

27           said collaboration space comprising a hierarchy of  
28           rooms, each room being a place in collaboration space  
29           including a member directory; said member directory,  
30           said members object, and said readers field selectively

31 providing increased, decreased, and maintained access  
32 to a child place in collaboration space, with access at  
33 any level of authority to a child place enabled only  
34 for those authorized to access a corresponding parent  
35 place, and whether a link to a child place will be  
36 enabled for a specific user in its corresponding parent  
37 place.

1 4. [Previously presented] The collaboration space of  
2 claim 3, said readers field including an access authority  
3 for each reader authorized to enter said room selectively as  
4 manager, author or manager.

1 5. [Previously presented] The collaboration space of  
2 claim 3, each said forward pointer being a secure pointer by  
3 carrying the same level of security as the child room to  
4 which it points.

1 6. [Previously presented] The collaboration space of  
2 claim 5, each said forward pointer carrying in said readers  
3 field the same security as that of the subroom to which it  
4 points.

1       7. [Previously presented] The collaboration space of  
2       claim 6, further comprising a display for presenting to a  
3       specific user viewing a parent room a listing of its  
4       subrooms, said listing including for said specific user only  
5       those subrooms for which said readers field in said forward  
6       pointer includes an entry authorizing access by said  
7       specific user.

1       8. [Canceled]

2       9. [Currently amended] A method for controlling access to  
3       rooms within a collaboration place created as a web site by  
4       a user at a browser, comprising the steps of:

5           maintaining for said collaboration place an access  
6           control list identifying those users authorized to  
7           enter said place;

8           providing forward and reverse pointers linking said  
9           rooms in a hierarchical structure within said place,  
10           said forward pointers including indicia identifying a

11 child room, indicia specifying the address location of  
12 the database forming said child room, and a readers  
13 field for providing access control list control on said  
14 forward pointer, said readers field exclusively  
15 specifying a subset of said users authorized to enter  
16 said place;

17 displaying a parent room to a specific user, said  
18 parent room including a list of children rooms for  
19 which said readers fields on said forward pointers  
20 authorize said specific user access; and

21 said collaboration space comprising a hierarchy of  
22 rooms, each room being a place in collaboration space  
23 including an access control list; said access control  
24 list and said readers field on forward links from a  
25 parent place to a child place selectively providing  
26 increased, decreased, and maintained access to said  
27 child place in collaboration space, with access at any  
28 level of authority to said child place enabled only for  
29 those authorized to access a corresponding parent  
30 place, and whether a link to a child place will be  
31 enabled for a specific user in its corresponding parent  
32 place.

33       10. [Currently amended] A method for creating a child room  
34       within a collaboration place data base created as a web site  
35       by a user at a browser, comprising the steps of:

36           providing for said collaboration place data base a  
37           first access control list identifying users authorized  
38           to access said data base;

39           providing for said child room a back pointer to a  
40           parent room; and

41           providing at said parent room for said child room a  
42           forward pointer from said parent room to said child  
43           room, said pointer including indicia identifying said  
44           child room, indicia specifying the address location of  
45           the database forming said child room, and a readers  
46           access field listing a subset of users in said first  
47           access control list who are users authorized to access  
48           said child room for providing a second access control  
49           list specific to said forward pointer;

50           initially including in said readers access field for a

51 child room created from a form users identified in a  
52 form access list identifying users authorized to read  
53 rooms created from said form;

54 limiting reader access in said readers access field to  
55 said child room for a specific user to no more than the  
56 access granted said specific user in said first access  
57 control list; and

58 said collaboration space comprising a hierarchy of  
59 rooms, each room being a place in collaboration space  
60 including an access control list; said access control  
61 list and said readers access field on forward links  
62 from a parent place to a child place selectively  
63 providing increased, decreased, and maintained access  
64 to said child place in collaboration space, with access  
65 at any level of authority to said child place enabled  
66 only for those authorized to access a corresponding  
67 parent place, and whether a link to a child place will  
68 be enabled for a specific user in its corresponding  
69 parent place.

11. [Canceled]

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12. [Canceled]

1       13. [Currently amended] A program storage device readable  
2       by a machine, tangibly embodying a program of instructions  
3       executable by a machine to perform method steps for  
4       controlling access to rooms within a collaboration place  
5       created as a web site by a user at a browser, said method  
6       steps comprising:

7               maintaining for said collaboration place a first access  
8               control list identifying those users authorized to  
9               enter said place;

10              providing forward and reverse pointers linking said  
11              rooms within said place, said forward pointers  
12              including indicia identifying a child room, indicia  
13              specifying the address location of the database forming  
14              said child room, and a second access control list  
15              including a readers field specifying each user having  
16              manager, author, and reader access to said child room,  
17              said readers field exclusively specifying a subset of  
18              said users authorized to enter said place; [[and]]

19              displaying a parent room to a specific user, said

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20 parent room including a list of children rooms for  
21 which said readers fields on said forward pointers  
22 authorize said specific user access; and

23 said collaboration space comprising a hierarchy of  
24 rooms, each room being a place in collaboration space  
25 including an access control list; said first access  
26 control list, and second access control lists on  
27 forward links from a parent place to a child place,  
28 selectively providing increased, decreased, and  
29 maintained access to said child place in collaboration  
30 space, with access at any level of authority to said  
31 child place enabled only for those authorized to access  
32 a corresponding parent place, and whether a link to a  
33 child place will be enabled for a specific user in its  
34 corresponding parent place.

1 14. [Canceled]

1 15. [Previously presented] A computer program product for  
2 controlling access to rooms within a collaboration place  
3 created as a web site by a user at a browser, comprising:

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4 a computer readable medium;

5 first program instructions for maintaining for said  
6 collaboration a first access control list identifying  
7 those users authorized to enter said place;

8 second program instructions for providing in a parent  
9 room second access control list identifying a subset of  
10 those user authorized to enter said place who are also  
11 authorized to enter said parent room with manager,  
12 author, or user access;

13 third program instructions for providing forward and  
14 reverse pointers linking said parent room with a child  
15 room in a double-linked list within said place, said  
16 forward pointers having a readers field providing a  
17 third access control list on said forward pointer, said  
18 third access control list providing access to said  
19 child room for those members who are included in said  
20 second access control list who are also authorized to  
21 access said child room;

22 fourth program instructions for displaying a parent  
23 room to a specific user, said parent room including on

24       said forward pointers a list of children rooms for  
25       which said readers fields authorize said specific user  
26       access;

27       fifth program instructions establishing said  
28       collaboration space as comprising a hierarchy of rooms,  
29       each room being a place in collaboration space  
30       including an access control list; said first access  
31       control list, said second access control list, and said  
32       third access control list selectively providing  
33       increased, decreased, and maintained access to said  
34       child place in collaboration space, with access at any  
35       level of authority to said child place enabled only for  
36       those authorized to access a corresponding parent  
37       place, and whether a link to a child place will be  
38       enabled for a specific user in its corresponding parent  
39       place; and wherein

40       said first, second, third, fourth, and fifth program  
41       instructions are recorded on said computer readable  
42       medium.